Release B CDR RID Report

Date Last Modified 10/4/96

Originator Barbara Putney

Phone No 301-286-7641

Organization GSFC

E Mail Address barbara.putney@gsfc.nasa.gov

Document Planning Workbench

RID ID **CDR** 20

Review Release B CDR

Originator Ref PDPS

Priority 2

Section **Page** **Figure Table** Entering Production

Category Name Planning (PLS) Design

Actionee ECS

Sub Category

Subject Execution Prioritization of tiles within a PGE

Description of Problem or Suggestion:

Prioritizing groups of tiles for 16 + day level 3 products is not currently possible. The 16 + day products can be produced in 5 days instead of 1 day providing groups of tiles can be prioritized. Having to produce all tiles in 1 day is very costly.

Originator's Recommendation

Allow groups of tiles within a PGE to have separate priorities.

GSFC Response by:

GSFC Response Date

HAIS Response by: M. Bopf

HAIS Schedule

HAIS R. E. C. Schwartz

HAIS Response Date 9/24/96

The PLS will provide the capability to prioritize tiles based on their cluster ID. Clusters are sets of geographically adjacent tiles which are grouped together to increase processing efficiency. Allowing processing to be prioritized based on the cluster ID of tiles will enable the MODIS team to support field experiments and other special events which require processing to be carried out with minimum delays. This solution was presented at a meeting with the MODIS instrument team and the originator of the RID has agreed that the new design will satisfy their requirements. This design will be fully documented in the As-built DID-305.

Status **Closed** **Date Closed** **10/4/96** **Sponsor** **Kempler**

****** **Attachment if any** ******

Release B CDR RID Report

Date Last Modified 10/4/96
Originator Lyn Oleson
Organization EDC DAAC
E Mail Address oleson@edcserver1.cr.usgs.gov
Phone No 605-594-6164
Document

RID ID **CDR** 36
Review Release B CDR
Originator Ref
Priority 2

Section **Page** **Figure Table**

Category Name Data Server (DSS) Design
Actionee ECS
Sub Category
Subject QC of Media

Description of Problem or Suggestion:

Need the capability to perform independent media Quality Control (QC) on a different drive before shipment.

Originator's Recommendation

At least verify that tape can be read and that external label matches internal label/header. Could be less than 100% QC for some products.

GSFC Response by: **GSFC Response Date**

HAIS Response by: Scott Halpine **HAIS Schedule**
HAIS R. E. J. Smith **HAIS Response Date** 8/5/96

Description: Need the capacity to perform independent Media Quality Control on a different drive before shipment.

Recommendation: Verify that the tape can at least be read and that the external label matches the internal label/header. Could be less than 100% QC.

There are no current level 3 or level 4 requirements which address QC. Design was performed after the mid-cycle review to add components to DDIST and STMGT to aid in QC effort. The design reflects issues raised at the Mid-Cycle Review about the tracking different media which are part of a request and the level of QC provided.

The design approach can be summarized as follows:

1. STMGT will use the reservation mechanism to make drives or stackers available for QC activities.
2. QC software will have complete control over the reserved devices.
3. QC will be invoked as a standalone process from the M&O GUI.
4. Operations personnel will have to load and unload QC drives. Care needs to be taken that media are not QC'd on the same device (or within the same stacker) on which it was created. Certain fault conditions (e.g., bad wiring) may go unnoticed.
5. Since different DAACs may desire to do QC in a different way, STMGT will provide a DLL interface for the QC algorithm. The provided algorithm will be minimal, verifying that the tape can be read by reading the first file on the tape. DAACs can create a DLL which can be used to implement the QC needs for that DAAC.
6. If a media fails QC, operations personnel will be able to redo the distribution processing for the failed media. The scenario for this will be similar to the scenario for Partial Fulfillment which was presented at the Mid-Cycle Review.

Status **Closed** **Date Closed** **10/4/96** **Sponsor** **Kobler**

****** **Attachment if any** ******

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Originator Barbara Putney
Phone No 301-286-7641
Organization GSFC
E Mail Address barbara.putney@gsfc.nasa.gov
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RID ID **CDR** 63
Review Release B CDR
Originator Ref
Priority 2

Section Planning **Page** **Figure Table**

Category Name Planning (PLS) Design **Actionee** ECS
Sub Category
Subject Design of the Level 2G MODIS Processing

Description of Problem or Suggestion:

The mapping of MODIS level 2 data to tiles is incomplete. This process is performed daily for several land products.

Originator's Recommendation

Capture the granule to tile mapping that is created in the L2G Pointer Code and change the PCF files with this information as they are created using this information for each tile. This is an on the fly file connection to PCFs.

GSFC Response by: **GSFC Response Date**

HAIS Response by: M. Bopf **HAIS Schedule**
HAIS R. E. C. Schwartz **HAIS Response Date** 9/24/96

A meeting was held with the MODIS IT on 6/5/96 where PDPS explained our post-CDR design for tiling which includes the production of daily tiles in order to support the MODIS needs. This supplements the concept of producing tiles only when an entire cluster had been completed, which only supported the 16-day tiled products. Tile definitions will still be stored in the PDPS database and queries will be made to SDSRV for data granules which overlap each tile to be produced. The MODIS IT agreed that this design would meet their needs and it will be fully documented in the As-built DID-305.

Status **Closed** **Date Closed** **10/4/96** **Sponsor** **Kempler**

****** **Attachment if any** ******